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**AMENDMENTS TO THE CLAIMS**

1. *(withdrawn)* A shaped charge for forming a perforation in a subterranean formation, comprising:
  - a charge case;
  - an explosive charge;
  - a liner for retaining the explosive charge within the case, the liner comprising:
    - a cap member forming a leading portion of a jet; and
    - an unconsolidated particulated filler material forming a particulated portion of the jet.
2. *(withdrawn)* The shaped charge of claim 1 further comprising:
  - a first liner membrane;
  - a second liner membrane;
  - wherein the cap member is disposed upon the first liner membrane and the filler material is disposed between the first and second liner membranes.
3. *(withdrawn)* The shaped charge of claim 1 wherein the filler comprises powdered metal.
4. *(withdrawn)* The shaped charge of claim 1 wherein the filler material is a blend of coarse and fine particles.
5. *(withdrawn)* The shaped charge of claim 1 wherein the first and second liner membranes are comprised of plastic.

6. *(withdrawn)* The shaped charge of claim 1 wherein the first and second liner membranes are comprised of polyester.
7. *(withdrawn)* The shaped charge of claim 1 wherein the first and second liner membranes are comprised of fiberglass.
8. *(withdrawn)* The shaped charge of claim 1 wherein the first and second liner membranes are comprised of glass.
9. *(withdrawn)* The shaped charge of claim 3 wherein particles of the powdered metal have a polymer coating.
10. *(withdrawn)* The shaped charge of claim 9 wherein the powdered metal comprises aluminum and the polymer comprises TEFLON®.
11. *(withdrawn)* The shaped charge of claim 10 wherein the aluminum is passivated by a polymer coating.
12. *(withdrawn)* The shaped charge of claim 1 wherein the filler material comprises hollow metal pellets.
13. *(withdrawn)* The shaped charge of claim 1 wherein the filler material comprises glass balloons.
14. *(withdrawn)* The shaped charge of claim 1 wherein the filler material comprises nano

particles of material from the group consisting essentially of aluminum, copper, tungsten, copper-coated tungsten, and TEFLON®-coated aluminum.

15. *(original)* The shaped charge of claim 1 wherein the first and second membranes are contiguously affixed to one another to completely enclose the filler material.
16. *(original)* The shaped charge of claim 1 wherein the filler material has a density that is below formation density.
17. *(original)* The shaped charge of claim 1 wherein the filler material has a density that is below 2.7 g/cc.
18. *(withdrawn)* The shaped charge of claim 3 wherein the powdered metal comprises tungsten.
19. *(withdrawn)* The shaped charge of claim 18 wherein the powdered tungsten is coated with copper.
20. *(previously amended)* A shaped charge for forming a perforation in a subterranean formation, comprising:
  - a charge case adapted to be positioned in a perforating gun;
  - an explosive charge formed at least partially of an explosive material;
  - a liner for retaining the explosive charge within the case, the liner upon detonation of the explosive charge forming a jet having a forward portion and a substantially particulated portion, the particulated portion having a lower density than the forward

portion.

21. *(previously amended)* The shaped charge of claim 20 wherein the particulated portion is formed of a filler material having a density of less than 2.7 g/cc.
22. *(previously amended)* The shaped charge of claim 21 wherein the filler material is particulated.
23. *(previously amended)* The shaped charge of claim 21 wherein the filler material comprises powdered aluminum.
24. *(withdrawn)* The shaped charge of claim 23 wherein the filler material further comprises TEFLON®.
25. *(original)* The shaped charge of claim 20 wherein the liner has a shape from the group consisting essentially of conical, cylindrical, trumpet, tulip, ball, and hemispherical.
26. *(withdrawn)* A method of perforating a formation comprising:  
generating a perforating jet having a metal precursor portion followed by a substantially particulated portion;  
penetrating a wellbore casing with said metal precursor portion;  
kissing the formation with said precursor portion; and  
penetrating said formation with said particulated jet to form a perforation.

27. *(withdrawn)* The method of claim 26 further comprising the step of initiating a secondary detonation reaction within the formation to open pores within the formation surrounding the perforation.
28. *(withdrawn)* The method of claim 27 wherein the step of initiating a secondary detonation reaction comprises heating air-filled pores in unconsolidated aluminum and rapidly oxidizing unconsolidated aluminum via proximity of fluorine atoms in a TEFLON® coating.
29. *(withdrawn)* The method of claim 26 wherein the secondary burning reaction further comprises oxidizing aluminum through a TEFLON® coating.
30. *(withdrawn)* The method of claim 26 further comprising the step of disposing unreacted polymer within the formation to reduce fluid viscosity.
31. *(withdrawn)* The method of claim 26 further comprising the step of disposing unreacted TEFLON® within the formation to reduce fluid viscosity.
32. *(cancelled)* An explosively formed penetrator comprising:  
a charge case;  
an explosive charge within said charge case;  
a liner for retaining the explosive charge within the case, the liner comprising:  
a substantially contiguous first liner membrane;  
a substantially contiguous second liner membrane; and  
a particulated filler material disposed between the first and second liner

membranes, the filler material being substantially unconsolidated.

- 33. *(currently amended)* The shaped charge of claim 20 wherein the explosively formed penetrator further comprises a metal cap disposed upon the liner.
- 34. *(previously presented)* The shaped charge of claim 20 wherein the liner forming a precursor jet is conformal to the charge case.
- 35. *(new)* The shaped charge of claim 21 wherein the filler material has a density that approximates the density of an oil bearing formation.
- 36. *(new)* The shaped charge of claim 20 wherein the forward portion of the jet penetrates one of (i) a perforating gun scallop, (ii) a perforating gun cover, (iii) a wellbore casing, and (iv) cement sheath.
- 37. *(new)* the shaped charge of claim 20 wherein the particulated portion of the jet perforates the subterranean formation.
- 38. *(new)* the shaped charge of claim 20 wherein the particulated portion of the jet increases in temperature and reduces interstitial fluid viscosity upon penetration into the subterranean formation.
- 39. *(new)* The shaped charge of claim 1 wherein the filler material has a density that approximates the density of an oil bearing formation.
- 40. *(new)* The shaped charge of claim 1 wherein the forward portion of the jet penetrates

one of (i) a perforating gun scallop, (ii) a perforating gun cover, (iii) a wellbore casing, and (iv) cement sheath.

41. (new) the shaped charge of claim 1 wherein the particulated portion of the jet perforates the subterranean formation.
42. (new) the shaped charge of claim 1 wherein the particulated portion of the jet increases in temperature and reduces interstitial fluid viscosity upon penetration into the subterranean formation.